1	The in	vention claimed is:
1	1.	A method of compacting an endoprosthesis comprising
2		providing a self-expanding endoprosthesis comprising a stent-element;
3		providing at least one tapered die proportioned to compact the
4	endoprosthes	sis;
5		passing the endoprosthesis through the at least one tapered die to reduce
6	dimensions o	f the endoprosthesis; and
7		passing the endoprosthesis through the at least one tapered die at least one
8	additional tim	e.
1	2.	The method of claim 1 that further comprises
2		providing flutes and grooves on the at least one tapered die; and
3		passing the endoprosthesis through the tapered die with with flutes and
4	grooves in or	der to establish pleated folds in the endoprosthesis when compacted.
1	3.	The method of claim 1 that further comprises
2		providing the stent-element with forward facing apices and rearward facing
3	apices;	
4		providing a tether line attached to or aligned with one or more of the apices;
5		pulling the endoprosthesis through the at least one tapered die using the
6	tether line.	
1	4.	The method of claim 3 that further comprises
2		providing an actuation mechanism;
3		attaching the tether line to the actuation mechanism to pull the
4	endoprosthe	sis through the at least one tapered die.
1	5.	The method of claim 3 that further comprises
2.		providing multiple flutes and grooves within the at least one tapered die;
3		providing multiple tether lines;
4		aligning the tether lines with only forward facing apices so that when the
5	tether lines a	are pulled through the grooves only the forward facing apices are visible on the
6	outside of th	e compressed endoprosthesis.
1	6.	The method of claim 2 that further comprises
2		positioning the flutes evenly around the tapered die so as to produce uniform
3	spac	ing of pleats around the compressed endoprosthesis.
1	7.	The method of claim 6 that further comprises
2		providing a uniform spacing of grooves within the at least one tapered die;
3		providing a tether line to correspond with each groove; and

passing the endoprosthesis through the tapered die using the tether lines.

	1	8.	The method of claim 1 that further comprises			
	2		including a cover attached to the stent-element.			
	1	9.	The method of claim 1 that further comprises cooling the endoprosthesis prior			
	2	to passing through the tapered die.				
	1	10.	The method of claim 1 that further comprises allowing the endoprosthesis to			
	2	expand before	re passing it through the at least one tapered die at least one additional time.			
	1	11.	A method of compacting an endoprosthesis into a compacted dimension			
	2	comprising				
	3		providing a self-expanding endoprosthesis comprising a stent-element;			
	4		providing at least one tapered die proportioned to compact the			
5 endoprosthesis, the tapered die including multiple flutes and grooves therein;						
	6		passing the endoprosthesis through the tapered die to reduce its dimensions			
	7	the flutes an	d grooves causing the endoprosthesis to fold into pleats in its compacted			
	8	dimension.				
	1	12.	The method of claim 11 that further comprises			
	2		passing the endoprosthesis through the tapered die at least one additional			
	3	time.				
	1	13.	The method of claim 11 that further comprises			
	2		subsequently passing the endoprosthesis through a second taper die having			
	3	a sm	aller diameter.			
	1	14.	The method of claim 11 that further comprises passing the endoprosthesis			
	2	through a tapered die having a larger diameter prior to compacting in the at least one				
	3	tapered die.				
	1	15.	The method of claim 11 that further comprises			
	2		providing the stent-element with forward facing apices and rearward facing			
	3	apices;				
	4		providing a tether line attached to or aligned with one or more of the apices;			
	5		pulling the endoprosthesis through the at least one tapered die using the			
	6	tether line.				
	1	16.	The method of claim 15 that further comprises			
	2		providing an actuation mechanism;			
	3		attaching the tether line to the actuation mechanism to pull the			
	4	endoprosthesis through the at least one tapered die.				
	1	17.	The method of claim 15 that further comprises			
	2		providing multiple tether lines:			

3		aligning the tether lines with only forward facing apices so that when the	
4	tether lines	are pulled through the grooves only the forward facing apices are visible on the	
5	outside of the compressed endoprosthesis.		
1	18.	The method of claim 11 that further comprises	
2		positioning the flutes evenly around the tapered die so as to produce a	
3	uniform spa	cing of pleats around the compressed endoprosthesis.	
1	19.	The method of claim 18 that further comprises	
2		providing a uniform spacing of grooves within the at least one	
3	endoprosth	esis;	
4		providing a tether line to correspond with each groove; and	
5		passing the endoprosthesis through the tapered die using the tether lines.	
1	20.	The method of claim 11 that further comprises cooling the endoprosthesis	
2	prior to pas	sing through the tapered die.	
1	21.	The method of claim 12 that further comprises allowing the endoprosthesis to	
2	expand bef	ore passing it through the at least one tapered die at least one additional time.	
1,	22.	A method of compacting an endoprosthesis comprising	
2		providing an endoprosthesis;	
3		providing a first tapered die proportioned to compact the endoprosthesis;	
4		providing a second tapered die;	
5		passing the endoprosthesis through the first tapered die;	
6		subsequently passing the endoprosthesis through the second tapered die.	
- 1	23.	The method of claim 22 that further comprises providing a second die that is	
2	approximat	ely the same sized diameter as the diameter of the first die.	
1	24.	The method of claim 22 that further comprises providing a second die that is	
2	a smaller d	iameter than the diameter of the first die.	
1	25.	The method of claim 22 that further comprises providing flutes and grooves	
2	on at least	one of the tapered dies.	
1	26.	The method of claim 22 that further comprises	
2		providing as part of the endoprosthesis a stent element with forward facing	
3	apices and	rearward facing apices;	
4		providing a tether line attached to or aligned with one or more of the apices;	
5		pulling the endoprosthesis through the dies using the tether line.	
1	27.		
2		providing an actuation mechanism;	
3		attaching the tether line to the actuation mechanism to pull the	
4	endoprost	nesis through the tapered die.	

1		28.	The method of claim 25 that further comprises
2			providing multiple flutes and grooves within the at least one tapered die;
3			providing multiple tether lines;
4			aligning the tether lines with only forward facing apices so that when the
5		tether lines are	e pulled through the grooves only the forward facing apices are visible on the
6		outside of the	compressed endoprosthesis.
1		29.	The method of claim 25 that further comprises
2			positioning the flutes evenly around the tapered die so as to produce uniform
.3		spacing of ple	ats around the compressed endoprosthesis.
1		30.	The method of claim 29 that further comprises
2			providing a uniform spacing of groves within the at least one tapered die;
3			providing a tether line to correspond with each groove; and
4			passing the endoprosthesis through the tapered die using the tether lines.
1		31.	The method of claim 22 that further comprises
2			providing an endoprosthesis that includes a stent-element and a cover.
1		32.	The method of claim 22 that further comprises
2			providing as the endoprosthesis a stent.
1		33.	The method of claim 32 that further comprises
2			providing a stent that is self-expanding.
1		34.	The method of claim 33 that further comprises
2	:		providing a graft element attached to the stent.
1		35.	The method of claim 22 that further comprises cooling the endoprosthesis
2	<u>.</u>	prior to passi	ng through the first tapered die.
1		36.	The method of claim 22 that further comprises allowing the endoprosthesis to
2	-	expand befor	e passing it through the second tapered die.
. 1		37.	A method of compacting an endoprosthesis comprising
2	<u> </u>		providing a self-expanding endoprosthesis having a first diameter;
3	3		compacting the endoprosthesis to a second diameter smaller than the first
4	ļ	diameter;	
5	5		allowing the endoprosthesis to expand to a diameter larger than the second
6	3	diameter;	
7	7		subsequently compacting the endoprosthesis to a third diameter smaller than
8	3	the second d	iameter.

1	38.	The method of claim 37 that further comprises	
2		providing at least one tapered die proportioned to compact the	
3	endoprosthesis;		
4		passing the endoprosthesis through the at least one tapered die to reduce	
5	dimensions o	f the endoprosthesis.	
1	39.	The method of claim 38 that further comprises	
2		providing flutes and grooves on the at least one tapered die; and	
3		passing the endoprosthesis through the tapered die with with flutes and	
4	grooves in or	der to establish pleated folds in the endoprosthesis when compacted.	
1	40.	The method of claim 38 that further comprises pulling the endoprosthesis	
2	through the a	t least one tapered die using at least one tether line.	
1	41.	The method of claim 40 that further comprises	
2		providing an actuation mechanism;	
3		attaching the tether line to the actuation mechanism to pull the	
4	endoprosthes	sis through the at least one tapered die.	
1	42.	The method of claim 39 that further comprises	
2		positioning the flutes evenly around the tapered die so as to produce uniform	
3	spacing of plo	eats around the compressed endoprosthesis.	
1	43.	The method of claim 42 that further comprises	
2		providing a uniform spacing of grooves within the at least one tapered die;	
3		providing a tether line to correspond with each groove; and	
4		passing the endoprosthesis through the tapered die using the tether lines.	
1	44.	The method of claim 37 that further comprises	
2		providing an endoprosthesis that comprises a stent-element and an attached	
3	cover.		
1	45.	The method of claim 37 that further comprises cooling the endoprosthesis	
Ġ	prior to comp	pacting it	